

## DD Form 1423-1, JUN 90

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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved QMB No. 0704-0188		
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A. CONTRACT LINE ITEM NO.		B. EXHIBIT <b>B</b>		C. CATEGORY: TDP                      TM                      OTHER			
D. SYSTEM / ITEM A/S 32P-23 Fire Truck Hub Assembly Re-			E. CONTRACT / PR NO. FD20600170306P		F. CONTRACTOR		
1. DATA ITEM NO. <b>8001</b>		2. TITLE OF DATA ITEM BLK16			3. SUBTITLE		
4. AUTHORITY (Data Acquisition Document No.) TM-86-01H		5. CONTRACT REFERENCE			6. REQUIRING OFFICE WR-ALC/LKCB		
7. DD 250 REQ DD		9. DIST STATEMENT REQUIRED		10. FREQUENCY BLK16	12. DATE OF FIRST SUBMISSION 30 DAC		
8. APP CODE A		N/A		11. AS OF DATE BLK16	13. DATE OF SUBSEQUENT SUBMISSION BLK16		
16. REMARKS  BLK 2: TECHNICAL MANUAL CONTRACT REQUIREMENTS (TMCR)  BLK 4: General and specific Technical Manual requirements are contained in the attached TM 86-01H.  BLK 7: DD Form 250 requirements is applicable to source for inspection and WR-ALC/LKCB for acceptance.  BLK 8: Approval IAW TM 86-01H, Para. 16.  BLK 9: N/A  BLK 10 & 15: See TM 86-01H. and Digital Data Spreadsheet					14. DISTRIBUTION		
					b. COPIES		
					a. ADDRESSEE		FINAL
					Draft		Reg      Repro
					See TMCR 86-01H		
					See Digital Data Spreadsheet		
					15. TOTAL		
G. PREPARED BY Teena Horne WR-LKCB		H. DATE 03/13/01		I. APPROVED BY Sherry Dement		J. DATE 03/13/01	

Attachment D  
FD20600170306

**Air Force Technical Manual Contract Requirements (TMCR)**

For

**A/S 32P-23 Fire Truck Hub Assembly Redesign****NSN xxxxxxxxxxxxxx**

(Program/Modification/Military System)

ATTACHMENT \_\_\_\_\_ TO CDRL SEQUENCE NUMBER \_\_\_\_\_ EXHIBIT \_\_\_\_\_

REQUEST FOR PROPOSAL/CONTRACT: FD2060010306P

Date: 20 March 2001

Technical Manual/Technical Order requirements contained herein have been cleared for use by OMB No.  
0704-0188, 21 July 1986.

**SECTION 1. TECHNICAL ORDER (TO) PROGRAM REQUIREMENTS**

1. TMCR Tailoring. (T) Offerors MUST tailor this TMCR document, including the associated tables, matrices and Specification/Standard Interface Requirements (SIRs). The tailored TMCR shall be attached to the CDRL for TO delivery, and shall be included in the proposal as a separate exhibit, referenced in the proposal SOW. Proposals shall be compatible with the Air Force infrastructure and support the **A/S 32P-23 Fire Truck Hub Assembly Redesign** CALS implementation strategy as documented in the Government Concept of Operations (GCO) located at Warner Robins AFB, GA. Air Force TO Acquisition procedures, including procedures for tailoring this document, are found in TO 00-5-3, located on the World Wide Web (WWW) at <http://www.deskbook.osd.mil>. Any terms or procedures found in this document may be researched there.

2. TO Program Scope. (T) The offeror shall tailor Section 2 to propose the TO types (Table 1) required to support the **A/S 32P-23 Fire Truck Hub Assembly Redesign** program's objectives. Page-oriented Military Specification (MILSPEC) TOs must be formatted according to MIL-STD-38784 with text, graphics and delivery according to MIL-STD-1840.

3. Commercial Manuals. **Deleted.**

4. Technical Manual Specifications and Standards (TMSS) Tailoring. TMSS are tailored by deleting requirements not needed for program TOs, and by selecting between options offered. The tailoring is recorded in SIRs and added to Section 3 of this document. AF options in some Joint-Service TMSS have been documented in preliminary SIRs included in Section 3. Offerors shall complete tailoring of the Joint-Service TMSS SIRs and provide recommended SIRs for other TMSS or NGS as applicable. Questions and conflicts with TMSS requirements may be resolved by written request and justified suggestions for resolution submitted through the PCO to WR-ALC-LKCB, 460 Richard Ray Blvd, Ste. 221, Robins AFB GA 31098-1640. Approved recommendations, corrections and clarifications will be maintained with contract documentation. **NOTE:** Tailoring must not change or delete mandatory requirements which are part of the DTD structure.

5. Subsequent TO/Data Requirements. Offerors shall propose a process for notifying the government when additional TO or source data requirements are identified subsequent to contract award. This process shall require government review and approval of recommended additional requirements prior to contractual approval. **NOTE:** The recommended notification process is to use CFAE/CFE Notices (DI-TMSS-80067).

6. TO Development. (T) The offeror shall propose TO development practices and procedures which ensure TOs and data are compatible with the AF Digital Data Strategy ([http://www.pdsm.wpafb.af.mil/datamgt/data\\_mgt.htm](http://www.pdsm.wpafb.af.mil/datamgt/data_mgt.htm)) and the JCALS JTMS. The preferred method is through use of the TMSS specified in Section 2 to produce TO files tagged using Standard Generalized Markup Language (SGML) according to the Document Type Definitions (DTDs) appended to MIL-STD-38784 and each specification. The offeror must submit any DTDs developed to support use of NGS or canceled TMSS through the PCO and TO Manager to MSG/ILMP for validation of JCALS compatibility. SGML-tagged TO files shall include required illustrations in one of the three approved graphics exchange specifications; MIL-PRF-28000, 28002, or 28003.

7. TO Numbering. (T) Offerors shall propose a method for notifying the government of which manuals require TO numbers. TO numbers are not required for manuals to be used exclusively by contractor personnel. (**NOTE:** DI-TMSS-80067 may be used to provide the notification.) AF procedures for numbering TOs are described in TO 00-5-3 and AFMCMAN 21-1 (<http://www.pdsm.wpafb.af.mil/toprac/to-syste.htm>).

8. Data Rights. (T) Government rights in data are specified in the Defense Federal Acquisition Regulation Supplement (DFARS), paragraphs 227-7102 through 227-7104 located at WR-ALC/PK Robins AFB GA. (<http://www.pkec.robins.af.mil>.) Offerors shall propose Unlimited Rights for all source data and TOs prepared specifically for the contract.

9. Classification, Distribution, Destruction, Disclosure, and Export Control Notices. Offerors shall propose methods for determining, marking and controlling classified and restricted distribution data and TOs. Processes must conform to government requirements specified in DOD 5200.1-R, DODD 5230.24, AFIs 31-401 and 61-204, and MIL-STD-38784. **NOTE:** Distribution limitations are normally determined on a case-by-case basis as TOs are developed, dependent upon TO content.

10. TO Quality. (T) Offerors shall propose a quality assurance program which ensures TOs prepared are: a) 100% technically accurate; b) written to a scope and depth of coverage sufficient to support the operations and maintenance concepts, and to the Reading Grade Level (RGL) specified in MIL-STD-38784; c) compatible with the JCALS JTMS; and d) properly classified and marked with export control and distribution limitation statements. Recommended QA methods include actual performance of procedures and use of desk-top analysis for non-procedural data. Simulation (walk-through/talk-through) should be reserved for those procedures which would activate explosive devices or present a hazard to personnel or equipment. Offerors' proposals should describe how the government will be allowed to interact with the contractor's TO development team.

10.1. Conferences and Technical Reviews. (T) Offerors shall propose sufficient conferences and reviews to allow insight into TO development processes and ensure contract compliance. Offerors normally host an initial Guidance Conference or Technical Interchange Meeting (TIM) within 60 days of contract award to ensure mutual understanding of TO contract requirements, schedules, points of contact, etc. Periodic In-Process Reviews (IPRs) (If Required) will be held at the **30% and 70%** completion point of development and Prepublication Reviews (PPR) ensure TOs are being developed according to contract requirements and that open discrepancies are cleared prior to publication.

10.2. TO Certification. (T) Offerors shall propose their method for documenting certification that TO procedures are accurate, adequate, current, and usable for their intended purposes.

10.3 Verification Support. (T) Offerors shall propose the methods, equipment and personnel required to support government TO Verification. This support should consist of at least representatives from the publication department, and if necessary engineering support to resolve technical questions.

11. TO and Source Data Maintenance. (T) Offerors shall propose methods for maintaining accuracy, currency and configuration of TOs and source data throughout the contract period of performance. Maintenance includes preparation of TO and source data updates to incorporate corrections, equipment configuration changes, and maintenance and operational concept changes, as well as government recommend changes resulting from validation, verification and IOT&E.

12. TO Delivery. (T) Offerors shall propose practices and procedures for access to or delivery of digital TO files, including those for Preliminary TOs (PTOs), source data, reproduction masters, and program support data. Practices and procedures shall be compatible with the program's Contractor Integrated Technical Information Service (CITIS) agreement (if on contract) and Government Concept of Operations (GCO – located on the World Wide Web (WWW) at <http://www.deskbook.osd.mil>. TO file delivery formats shall be according to applicable CDRLs and the tailored TM Delivery Requirements Matrices included in Section 2 of this document.

12.1. SGML-Tagged Files. (T) The government will parse SGML TO document files prior to acceptance. **NOTE:** The Internet address for the public domain "SGMLS Parser" software is "<ftp://ifi.uio.no/pub/SGML>."

12.2. Indexed Adobe™ Portable Document Format (IPDF) Files. (T) The offeror shall provide Indexed PDF files for all manuals developed as the minimum acceptable digital delivery medium. The final decision regarding digital delivery medium shall be addressed and approved during the guidance conference. Indexing specifications for PDF TO files are contained in the AF Digital Data Strategy ([http://www.pdsm.wpafb.af.mil/datamgt/data\\_mgt.htm](http://www.pdsm.wpafb.af.mil/datamgt/data_mgt.htm)).

12.3. Native Format Data/Digital File. (T) The offeror may recommend delivery of files developed in a "Native" format as final delivery medium. All recommendations for Native formatted data/graphics must be approved by the TO Manager during the initial guidance conference. Native format is defined as untailored software available Off-The Shelf i.e, MS Word, Wordperfect, Framemaker, etc. The recommended standard delivery format shall be Adobe® FrameMaker® 6.0. Generalized Markup Language is an alternate delivery format when approved by TOMA. In addition, an ASCII version of the text data shall also be provided to facilitate conversion to other digital formats when justified. Native delivery shall be a finished and composed document with tables, figures, and illustrations completely merged and integrated for each technical order. Whenever a native delivery has supporting or associated files such as customized fonts, graphics, tables, etc, created from other format sources, those files shall also be delivered. Native does not include company proprietary text and graphics systems. Native formatted data and graphics must be capable of easily converting to a neutral format i.e. ASCII for text files. Additional digital delivery media requirements are specified in MIL-STD-1840 (SR,Section 3).

13. Schedules. (T) Offerors shall include TO program events and schedules in their proposed Integrated Master Plan (IMP) and Integrated Master Schedule (IMS), and update the IMS throughout the period of performance. **NOTE:** AF policy requires delivery of verified TOs prior to or concurrently with delivery of operational equipment to the field (AFPD 21-3). This policy will determine TO development and delivery schedules throughout the acquisition phase of a program.

14. Time Compliance Technical Orders (TCTOs). (T) Offerors shall propose practices and procedures to develop AF TCTOs and related TO updates when tasked as part of the approval process for Engineering Change Proposals (ECPs) to configured items. Costs for TCTO package development must be included in ECP Costs – not included as direct proposal costs. **NOTE:** ECPs are reviewed and approved by the Government's Configuration Control Board (CCB). When the CCB decides that a TCTO is the appropriate method of implementation, the contractor may be requested to develop the TCTO package for Air Force coordination and approval. See TO 00-5-15 (<http://www.pdsm.wpafb.af.mil/toprac/to-syste.htm>) for a detailed description of the TCTO system.

15. TO Reproduction Management. **Deleted.**

16. Program Specific Requirements. (T) The following paragraphs provides detailed development and delivery requirements for the A/S 32P-23 Fire Truck Hub Assembly Redesign program. The contractor shall update technical manuals (see section 2) to procured configuration of equipment. This update shall be developed in the form of a change to the existing manuals. Changes shall cover Operation and Maintenance inspection requirements, lubrication, overhaul and repair procedures, installation instructions, special tools, and illustrated parts breakdown. Within 90 days after award of the contract, contractor shall submit three (3) review copies of each draft change for technical orders listed in table 2. Within 270 days after award of the contract, contractor shall submit final TO changes for government verification. Government may require up to 30 days completing the review and forward comments to the contractor. Following receipt of government comments, contractor shall submit final TO change with in 60 days. Reproduction delivery shall be a combination of direct image Copy and Digital Data on CD-ROM.

17. Digital Data Transfer Spreadsheet. (T) Microsoft Excel spreadsheets containing the digital files delivery information and TO metadata shall be included with each technical order delivery. However, if the spreadsheets cannot be delivered in Microsoft Excel format, other spreadsheet programs may be substituted upon obtaining approval from the TOMA. The spreadsheet shall also be delivered on the preferred media as described in paragraph 12 and may be on the same media as the technical data delivery.

17.1 Spreadsheet Entries.

The following digital file information and TO metadata are required in each spreadsheet.

When specified, the field size is the maximum size allowable. Fields can be blank when they are not applicable but cannot be omitted.

### 17.2 Digital File Transfer Information Data.

A record within the spreadsheet contains all the fields listed below.

<u>FIELD NAME</u>	<u>FIELD SIZE</u>	<u>TYPE</u>
Publication Number	40	CHAR
File Name	25	CHAR
File Format	25	CHAR
Authoring System	50	CHAR
Authoring System version	10	CHAR

### 17.3 TO Meta-Data.

The date format for the date fields is DD-MMM-YYYY. A record within the spreadsheet contains all the fields listed below.

<u>FIELD NAME</u>	<u>SIZE</u>	<u>TYPE</u>
Publication Number (TO/TCTO)	40	CHAR
Publication Date (TO/TCTO)	11	CHAR
Publication Title	As required	CHAR
Change Date	11	CHAR
Safety Supplement No.	3	CHAR
Change No.	3	CHAR
Safety Supplement Date	11	CHAR
Operation Supplement No.	3	CHAR
Operation Supplement Date	11	CHAR
Technical Order Page Supplement No. (TOPS)	3	CHAR
TOPS Date	11	CHAR
Routine Supplement	3	CHAR
Routine Supplement Date	11	CHAR
Supplement to a commercial manual or TCTO	3	CHAR
TCTO Date	11	CHAR
<i>Data Code (unique to TCTOs)</i>	10	CHAR
Former Technical Order Number	32	CHAR
Weapon System (F15, C130, etc.,)	10	CHAR
Part Number	15	CHAR
Model Number (A, B, etc.,)	5	CHAR
Manual Size	10	CHAR
Paper Stock (W/Y/G)	1	CHAR
Bleed Border Page	As required	CHAR
Color Page	As required	CHAR
Foldout Page	As required	CHAR
Category	As required	CHAR
Subcategory	As required	CHAR
Distribution Code	1	CHAR
Organization Identifier	10	CHAR
Total Pages Count	5	CHAR

## SECTION 2. TM TYPE AND DELIVERY REQUIREMENTS

### NOTES:

- Mark the TM Type Selection Tables indicating the applicable TO types and related specifications. For additional interface requirements see the program-specific Government Concept of Operations (GCO) and DOD 5000.2-R.
- Manuals delivered using this table and DI-TMSS-80067, CFAE/CFE Notices, must be reviewed and approved by the Air Force prior to delivery.
- IPBs are developed IAW MIL-PRF-38807, except that MIL-DTL-87929 will also be used for IPBs combined with work packages. A separate IPB may be required for this effort. Final determination will be made during the initial guidance conference.
- All checklists, except aircrew and nuclear weapons checklists, are developed IAW MIL-PRF-5096.
- MIL-PRF-83495 requires DOD-STD-863 requirements to be levied on engineering data for preparation of end item wiring data and schematic diagrams.
- Delivery requirements are indicated in the TM Delivery Requirements matrices.
- Digital data media format requirements are specified in MIL-STD-1840. Use MIL-STD-1840 as a guide when completing Part B - TM Delivery Requirements.
- For further information on Air Force Digital Data Strategy, see WWW address [http://www.pdsm.wpafb.af.mil/datamgt/data\\_mgt.htm](http://www.pdsm.wpafb.af.mil/datamgt/data_mgt.htm).

**TABLE 2**  
**ADDITIONAL TM TYPE SELECTIONS**

**NOTES:**

- Check all applicable boxes.
- For commercial manual supplemental data only, under the specification heading, enter "Same style and format," "MIL-PRF-38807" (for IPB data), or "MIL-STD-38784."
- For existing MIL-SPEC manuals not being updated to latest specification requirements, enter "Same style and format" under the specification heading.

TO Number, Title, or Type of Manual	Specification	Com- mercial Manual	Change/ Revision	Supple- ment	Supple- mental TM	Source Data
1. 36A12-8-17-11		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. 36A12-8-17-12		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. 36A12-8-17-14		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## PART A – TM TYPE SELECTION TABLES

TABLE 1

TMSS REQUIREMENTS FOR THE (A/S 32P-23 Fire Truck Hub Assembly Red Design) Program  
(System/Component)

Title or Type of Manuals	Specification	Required
1 Operation and Maintenance Instructions in Work Package Format	MIL-DTL-87929	Yes
a. Maintenance Manuals		
(1) Intermediate Maintenance	--	<input type="checkbox"/>
(2) Depot Maintenance		<input type="checkbox"/>
(3) Combined (I&D) Maintenance		<input type="checkbox"/>
(4) On Condition Maintenance		<input type="checkbox"/>
b. Operation & Maintenance Instruction Manuals		<input checked="" type="checkbox"/>
c. Special Manuals		
(1) Aircraft Engine Testing and Trending Procedures		<input type="checkbox"/>
(2) Aircraft Power Package Testing Procedures		<input type="checkbox"/>
(3) Static Firing of Missile Motors		<input type="checkbox"/>
(4) System Peculiar Corrosion Control		<input type="checkbox"/>
(5) Nondestructive Inspection (NDI)		<input type="checkbox"/>
(6) Aircraft Structural Integrity Program (ASIP)		<input type="checkbox"/>
(7) ATE Operator Test Procedures		<input type="checkbox"/>
(8) Special Requirements for Storage and Maintenance Procedures; AUR Munitions/Launchers and Associated Support Equipment, Conventional Components and CMBR Agents		<input type="checkbox"/>
(9) Parachute Packing Procedures		<input type="checkbox"/>
(10) Operators Instructions (Hand-Held Flight Computers)		<input type="checkbox"/>
(11) Installation-Engineering Facility (Ground C-E Equipment)		<input type="checkbox"/>
d. Checklists (IAW MIL-PRF-5096)		<input type="checkbox"/>
e. With Illustrated Parts Breakdown (see notes)	MIL-PRF-38807	<input checked="" type="checkbox"/>

**PART B - TM DELIVERY REQUIREMENTS**  
**FOR A/S 32P-23 Fire Truck Hub Assembly Redesign**  
*(System/Item)*

**TM DATA TYPE DELIVERED MIXED .**  
*(TMSS/Change/Supplement/etc.)*  
 (Replicate form for each TM type required.)

**Delivery Format Requirements Codes**

Paper (draft or manuscript only. Cannot be used for final delivery)

Digital delivery only:

N. - Native (Frame Maker)

Mixed paper and digital (P/I)

I. - Indexed Portable Document Format (IPDF) File.

**EXAMPLE:** M(N) / 2 [Paper and Native / 2 copies]

**NOTES:**

- Delivery format requirements codes indicate the media/file format to be delivered for each program event.
- TCTO requirements are specified in the contract vehicle approving the TCTO.
- When on-line access (e.g., CITIS) is a contractual requirement, copy quantity will normally be Ø (zero).

<u>DELIVERY SCHEDULE</u>				
Event ⇒ Number of days data required prior to event ⇒	Technical Review 90 Days After Contract Award	Verification 150 Days After Contract Award	Prepublication Review 180 Days After Contract Award	*Final Submission 210 Days After Contract Award
Enter Office Symbol and Address ↓ ↓	Enter delivery requirements code/copy quantities required ↓	↓	↓	↓
WR-ALC/LKCB Attn: Teena Horne 460 Richard Ray Blvd. Suite. 221 Robins AFB GA. 31098-1640.	P / 3	P / 3	P/3 I/1 N/1	P/3 I/1 N/1
* Final submission of source data 90 days prior to delivery of Hub Assembly to the Air Force.	/	/	/	/
	/	/	/	/
	/	/	/	/
<b>Total Copies Required:</b>	P/3	P/3	P/3	P/3 I/1 N/1

### SECTION 3. SPECIFICATION/STANDARD INTERFACE RECORDS (SIRS)

#### NOTES:

- Most specification "Acquisition Requirements" list the same two items for paragraphs 6.2a and 6.2b. For this contract enter:
  - 6.2a. The title, number and date of each specification will be listed in the heading of the applicable SIR.
  - 6.2b. The issue of the DODISS used in this contract is *(enter date)*.
- Tailoring out digital requirements may result in parsing failure of the delivered files. All such tailoring must be coordinated with the specification Preparing Activity (PA).
- All TM specifications applicable to this contract require an appropriately tailored SIR attached to this section. MIL-STD-38784 must be included in all contracts/proposals for AF TMSS-developed TOs.
- Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from <http://www.dodssp.daps.mil>, or the Standardization Documents Order Desk, 700 Robbins Ave, Bldg 4D, Philadelphia, PA 19111-5094.

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#### STANDARDIZATION INTERFACE RECORD FOR MIL-STD-1840B,

3 November 1992

#### Automated Interchange of Technical Information

**NOTE:** Program-specific tailoring of para 6.3 must be added to this SIR.

- 4.2 The transfer unit shall be encoded in an appropriate format for the type of transfer unit specified below.
- 4.2.1 Page image transfer units will only be used for raster-scanned (non-changeable) documents used to update relatively stable legacy (existing) data.
- 4.2.1c Special word files shall not be used; if changes to AF DTDs or FOSIs are required and authorized, the contractor shall submit a revised DTD or FOSI.
- 4.2.2 Page Description Language (PDL) transfer units will only be used to update volatile (changeable) legacy data using a commercial word processing format. **NOTE:** The preferred AF PDL is an Adobe<sup>TM</sup> Portable Document Format (PDF) file indexed in accordance with the AF Digital Data Strategy ([http://www.pdsm.wpafb.af.mil/datamgt/data\\_mgt.htm](http://www.pdsm.wpafb.af.mil/datamgt/data_mgt.htm)).
- 4.2.3 Standard AF DTDs (appended to the prescribed TM specifications) shall be used, when possible. The PUBLIC identifier shall be identified in the SGML document transfer unit. If no DTD is appended to the relevant MILSPEC, contact MSG/ILMP, through the Procuring/Administrative Contracting Officer (PCO/ACO) and the TO Management Agency, to obtain permission to develop a program-specific DTD.
- 4.2.3b Document type declaration files are not required if the file is in standard AF DTD format and the document type is obvious upon file inspection.
- 4.2.3d SGML text entity files developed as a result of AF DTD modification shall be included. PUBLIC SGML text entity files shall NOT be used.
- 4.2.3e Each illustration in the file shall be delivered in one of the following formats: IGES, Raster, or CGM. All formats may be used within any one document, depending upon the various types of illustrations used. **Note:** This is not intended to prevent delivery of an "intelligent raster" illustration, i.e., one with an IGES overlay to facilitate changes to the raster image.
- 4.2.3f Standard AF FOSIs (available electronically as GFI from the AF TMSS OPR) shall be used, when possible, for paper output products. The PUBLIC identifier shall be identified in the SGML document transfer unit. If no FOSI is available for the relevant MILSPEC, or for digitally-displayed data, contact MSG/ILMP, through PCO/ACO and the TO Manager, to obtain permission to develop a program-specific FOSI.
- 4.2.3g Special word files shall not be used; if changes to AF DTDs or FOSIs are required and authorized, the contractor shall submit a revised DTD or FOSI.
- 4.2.3h Contract defined data files shall be included in the transfer unit if quantities and capacities deviate from MIL-PRF-28001 (see paragraph 4.4.9).

4.2.4 Product data transfer units will only be used for engineering data files.

4.2.5 Delete.

4.4.1 Page image data files shall be in accordance with MIL-PRF-28002 for raster image files (see SIR paragraph 4.2.1 and the NOTE for paragraph 4.2.3e).

4.4.2 Special word files shall not be used.

4.4.5 Replace the 1st sentence with: Text source data files shall be SGML encoded ASCII text files, tagged in accordance with the standard AF DTDs (see paragraph 4.2.3).

4.4.6 Delete.

4.4.7 When there are multiple uses for the same illustration within a single document, submit only one illustration data file.

4.4.7.1 IGES Class I, Technical Illustration Subset, will normally be used in preference to Class II or Class III (see SIR for MIL-PRF-28000).

4.4.7.2 The contractor shall obtain government approval before including raster illustration data files, except in page image transfer units provided in raster format only.

4.4.8 Change to read: "FOSI data files shall be in accordance with standard AF FOSIs and shall define the style and display format of the document according to the applicable specification (see paragraph 4.2.3f)."

4.4.9 Replace with: "Contract defined data files. This file shall be used to provide the appropriate SGML declaration [Federal Information Processing Standard (FIPS) 152]. The file shall be submitted in ASCII."

4.4.10 through 4.4.12 Delete.

4.4.13 Renumber as 4.4.7.4. Replace requirements with: "Use of half-tone or color illustrations shall be as specified in the applicable TM specification."

5.3.2g Replace with: "DTD Revisions. A DTD revision shall be included any time the standard AF DTD must be modified. Prior MSG/ILMP approval for the modification is required."

5.4.2 The type of alternative medium shall be specified by the government.

5.5.3 Packaging instructions for alternative media shall be provided by the government.

6.3 Tailoring Guidance. *The following list of paragraphs may require additional tailoring: 4.2, 4.2.4b (if used), 4.4.3 (if used), 4.4.4, 4.4.11 (if used), 5.3.2 (if types not listed are required), 5.4 (transfer package layout on medium), 5.4.2 (specify media if not 9-track tape), and 5.5.3 (if non-listed computer media are specified). The TO acquisition manager must coordinate tailoring with the sustainment TO manager and the contractor to ensure requirements are realistic and supportable. DELETE this italicized paragraph during tailoring.*

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**STANDARDIZATION INTERFACE RECORD FOR MIL-PRF-28000A,**

10 February 1992

**Digital Representation for Communication of Product Data:  
IGES Application Subsets and IGES Application Protocols**

**NOTES:**

- Program-specific tailoring of para 6.2 must be added to this SIR.
- Submit each illustration in only one of the three approved graphics formats (IGES, Raster, or CGM).

6.2c. The type of product data procured will be Class I - Technical Illustration Subset. If Class II or Class III products are being procured for other program purposes (such as engineering drawings), and these products are suitable for TO application, they shall be used instead of duplicating data merely to obtain the Class I product.

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**STANDARDIZATION INTERFACE RECORD FOR MIL-PRF-28001B,**

26 June 1993

**Markup Requirements and Generic Style Specification for  
Electronic Printed Output and Exchange of Text**

**NOTE:** Used for Air Force TOs as a reference only. Contact MSG/ILMP if new DTDs are required.

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STANDARDIZATION INTERFACE RECORD FOR MIL-PRF-28002B,  
 Raster Graphics Representation in Binary Format,  
 Requirements for

14 December 1992

**NOTES:**

- Program-specific tailoring of (para 6.2) must be added to this SIR.
- Submit each illustration in only one of the three approved graphics formats (IGES, Raster, or CGM).
- Paragraph 6.2.1b is not answered in the TMCR.

1.2 (Info only) Type II, Tiled Raster Graphics (the optional choice) are compressed and require less memory space than Type I (Untiled).

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STANDARDIZATION INTERFACE RECORD FOR MIL-PRF-28003A,  
 Amendment 1,

15 November 1991

10 August 1992

Digital Representation for Communication of Illustration Data:  
 CGM Application Profile

**NOTES:**

- Submit each illustration in only one of the three approved graphics formats (IGES, Raster, or CGM).
- Paragraph 6.2b is not answered by the TMCR.

6.2b. Unless otherwise required by the content specification, only the Type 0 (monochrome) metafile shall be used.

6.2c. (*Tailor*)

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STANDARDIZATION INTERFACE RECORD FOR MIL-DTL-22202D,  
 Manual, Technical, Aircraft Cross-Servicing Guide,  
 Preparation of

31 March 1999

The requirements of 6.2 are met in this SIR (see below).

1.1 In addition to paper delivery, when this specification is used to develop digital delivery files (document type definitions – DTDs) contact the PA for additional instructions.

2.3 Ensure the listing for STANAG/ASCC Air Standard Documents is current. List applicable STANAG/ASCC Air Standards below.  
 (List STANAG/ASCC Air Standard Documents here.)

2.2.1 (Added) “Other government documents, drawings, and publications.

## DEPARTMENT OF DEFENSE

DOD 5200.1-R	DoD Information Security Program Regulation
DOD 5220.22-M	National Industrial Security Program Operating Manual

4. Replace with: “**VERIFICATION**.

“All cross-servicing guides shall meet the requirements of sections 3 and 5 of this specification, as required by the acquiring activity. The requirements set forth in this specification shall become a part of the contractor’s overall inspection system or quality program. The absence of any requirements in this specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the government for acceptance comply with all requirements of the contract. Use of sampling inspections shall be at the discretion of the contractor, and in accordance with commercially acceptable quality assurance procedures. However, use of sampling in QA procedures does not authorize submission of known defective material, ei-

ther indicated or actual, nor does it commit the government to accept defective material."

5. Replace with: **"PACKAGING.**

**"5.1 Packaging Requirements.** For acquisition purposes, the packaging requirements shall be as specified in the contract or order. When the actual packaging of material is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to determine packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department's System Command. Packaging data retrieval is available from the Military Department's or Defense Agency's automated packaging files, CD-ROM products, or the responsible packaging activity.

**"5.1.1 Encoded Computer Products.** Packaging of encoded computer products for delivery shall be in accordance with the requirements of MIL-STD-1840.

**"5.1.2 Classified Material.** Classified material shall be packaged and identified in accordance with DOD 5200.1-R, DOD 5220.22-M, and the implementing Service regulations."

- 6.2a Title, number, and date of the specification are listed above.
- 6.2b Issue of DODISS: *(fill in issue of DODISS applicable to this contract)*
- 6.2c Packaging requirements (see above).
- 6.2d Verification requirements (see above).

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STANDARDIZATION INTERFACE RECORD FOR MIL-STD-38784,

2 July 1995

**Standard Practice for Manuals, Technical:  
General Style and Format Requirements**

4.5.1.13 Destruction Notice. Change the existing sentence to read: "...or X shall be marked with Handling and Destruction Notice "a" (below) on the cover/title..." Add a new second sentence as follows: "Unclassified TOs authorized for Public Release (Distribution Statement "A") shall be marked with disposition notice "b" (below) on the title or T-2 page."

4.5.1.13.a. Designate existing paragraph as "a. HANDLING AND DESTRUCTION NOTICE..."  
Add: "See TO 00-5-2 for specific destruction procedures."

4.5.1.13.b (Added) b. DISPOSITION NOTICE - Refer to TO 00-5-2 for disposition instructions.

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STANDARDIZATION INTERFACE RECORD FOR MIL-PRF-38804,

Amendment 1,

## Time Compliance Technical Orders – Preparation

1 March 1996

20 June 1997

## 3.5.5.3a (Added) Add new subpara "a" as follows:

a. Routine Safety Inspection Organizational/Intermediate Level TCTOs. "Not later than (#) days after receipt of this TCTO. Affected system/ equipment shall be removed from service if this TCTO is not accomplished within the specified number of days." The specified number of days for accomplishment shall be controlled by the degree of safety involved rather than the designated level of maintenance. If the compliance period cannot be met before the TCTO rescission date, the performing organization will request an extended compliance period according to TO 00-5-15.

## 3.5.5.3 Renumber existing paragraphs "a" thru "d" and retitle as follows:

- b. Routine Action, Organizational/Intermediate Level, Safety TCTO.
- c. Routine Action, Organizational/Intermediate Level TCTO.
- d. Routine Action, Organizational/Intermediate Level, Based Upon Maintenance Practice.
- e. Routine Action, Depot Level.